

George W. Powell, III, Carbide Chemist At South Charleston, Wins Hyatt Award For New Process In Handling Vinylite Resins

George M. Powell, III, technical head, Vinyl Coatings Research and Development Department of Carbide and Carbon Chemicals Division, Union Carbide and Carbon Corporation, was awarded the John Wesley Hyatt Award for distinguished achievement in plastics. The award, for work done in Carbide's Charleston, W. Va., plant during 1949, was presented June 1 at a dinner at the Hotel Pierre in New York City.

Powell was the second Carbide scientist to receive the Hyatt Award in two consecutive years. The 1948 award went to Dr. George T. Felbeck, vice-president of the Carbide and Carbon Division for the engineering developments leading to the large-scale manufacture of polyethylene resins and plastics.

New Method Devised

The award was presented to Powell for his work in planning and directing the development, formulation and application of Vinylite dispersion resins. He was primarily responsible for the development of a method which

makes possible the use of high polymers in high solids dispersions in combination with inexpensive thinners. This achievement enables the plastics industry to manufacture articles with materials never before considered adaptable. It makes possible the use of Vinyl resins to coat paper, cloth, foil, and metals. The Powell process also has other practical uses.

Waldemar Kaempffert, science editor of the New York Times and a member of the Hyatt Award Committee, presented the award to Powell. Powell also received a gold medal and a check for \$1,000.

Snyder Addresses Group

Following the presentation ceremonies John W. Snyder, secretary of the treasury, spoke. Charles A. Higgins, president of the Hercules Powder Co., described the rapid growth of the plastics industry and also the contribution of small businesses to that growth. Dean Richard F. Bach, of the Metropolitan Museum of Art in New York, was toastmaster at the dinner.

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SECRETARY OF THE TREASURY JOHN W. SNYDER (IN white coat) congratulates George M. Powell, III, a Carbide scientist over winning the John Wesley Hyatt Award for distinguished achievement in plastics. Dean Richard F. Bach, of the Metropolitan Museum of Art, New York, left, was toastmaster at the award banquet held recently in New York. Waldemar Kaempffert, second from left, science editor of the New York Times, presented the award. Charles A. Higgins, right, president of the Hercules Powder Co., sponsor of the award.

Eight First Aid Teams In Y-12 Now Organized

Five more first aid teams were enrolled in Y-12 last week to bring the total number of groups now in training to participate in the Carbide First Aid Contest Saturday, September 16, to eight. One more team may be formed within the next few days.

New Teams Are Listed

The five new teams organized last week include groups representing the Industrial Relations Divisions with members picked from the Fire Department, two from the Isotope Research and Production Department; and two from the Analytical Chemical Division. The other possible entry is from the Electromagnetic Research Laboratory.

The first three teams formed represented the Maintenance Division, Manufacturing Offices Division and the Chemical Division, the latter being the only women's team so far formed.

Use Found For Training

The first aid contest is held annually under Company sponsorship to stimulate interest on the part of all employees in the value of first aid in everyday life in the plant and at home. Many Y-12ers have found practical use for the lessons learned in the 15-hour course in first aid offered all employees.

At present the teams planning to participate in the contest on September 16 are getting organized, brushing up on fundamentals and arranging for training of new members who so far have not taken the first aid course. Two hours per week are allowed team members for on-the-job training in first aid.

Committee Draws Regulations

The Company committee composed of Roy M. James, of Y-12; Lloyd N. Williams, of Oak Ridge National Laboratory; and James E. Campbell, of K-25; met again last week to draw field regulations for the contest. Some of the problems presented in previous years were reviewed by the committee in efforts to formulate a unified system of rating teams performing the work specified.

Although the cash awards for winning teams has been increased this year from previous years, the committee members point out that although the prize money and trophies are big incentives to the competing teams, the principal objective of the contest is to improve the standard of the first aid knowledge of every participant. The training obtained in preparation for the event and in the contest itself, it is pointed out, might result in the first aid worker being able to save the life of some fellow employee in case of an accident.

First aid teams from Y-12 have scored the highest number of points in each of the two previous contests held by the Company. For the first time last year the Company offered a handsome trophy to the plant with the winning team, to be won two consecutive years for permanent possession. This trophy now is in Y-12's possession and the plant is the defending champion in the 1950 meet.

Stores Replace Guards At Top Of Attendance Standings; Five Minor Groups Keep Records

For the third consecutive week a different department occupied first place in the Y-12 departmental standings in the Major League for the week ending July 16. Stores took over the top rating for that week, and, as Major League departments for the past seven weeks have done, posted a perfect attendance record for the period.

Meanwhile 10 departments in the Minor League reported no absenteeism for the week ending July 16, one more than the preceding week. Of this number, six were repeaters from the week ending July 9.

Stores, Guards Swap Positions

In advancing to the top of the standings in the Major League, composed of departments with more than 50 employees scheduled, Stores replaced the Guard Department, which was in first place for the week ending July 9. By a peculiar coincidence, Stores and the Guards exchanged positions, Stores advancing from 11th place and the Guards dropping to that position, which they had held prior to taking over first place. The Guards previously had replaced Chemical, top department for the week ending July 2 and two weeks previously, all with perfect attendance marks.

Second place in the Major League standings was taken over by Buildings and Grounds with an absentee mark of only .2 per cent of its personnel absent.

Five Maintain Fine Records

Five of the six departments in the Minor League, composed of

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Security Rules Aimed At Protecting Nation

Some security regulations of the Atomic Energy Commission that are in effect here in Y-12 may seem to violate the inherited right of Americans to freedom of speech. However, a few moments of thought on the subject will reveal that even in a democracy free speech has certain limitations—and particularly in time of war or other national emergency these limitations have necessarily been imposed on some freedom of speech and some freedom of action. This has been done solely as a protective measure to assure the safety of the nation.

Enemies Might Learn Secrets

It is well known that the free exchange of knowledge and ideas is largely responsible for the rapid growth of science. The same would be true of military technology. It also would advance more rapidly through free exchange of information. The United States could make better weapons if it had access to all the ideas of other nations—but, so could potential

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Best Treatment Against Poison Plants—Avoid



When, and if, you go rambling through the woods and see a vine or shrub with three leaves like those pictured above—stay away from them. They are the scourge of the woodland—either poison ivy or its first cousin and just as potent a trouble maker—poison oak.

Another member of the poison shrub family that thrives and lurks in the woods to harass hikers and picnic parties is the poison sumac. However, it is considerably different from the other two "cousins" in appearance.

Plants Similar In Appearance

Poison ivy leaves are irregular and heart shape and the edges usually are notched but sometimes are smooth. When the plant is young the leaves are bright green and glossy, turning darker with age. In autumn they will turn yellow and brown but do not lose any of their potency. Poison oak leaves are very similar in appearance to those of poison ivy with a slight resemblance to the regular oak leaves although the plant is no relation to the oak.

Neither of these two plants are restricted by soil or irrigation, growing almost anywhere under any conditions.

Poison Sumac Is Shrub

"Cousin" sumac is of an entirely different appearance and the most poisonous of the trio. It is a shrub or low tree that bears

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Colonel McCormick Ordered To Pacific

Lieut. Col. Howard P. McCormick, U.S.A., who has been stationed in Y-12 since July 1, 1949, last week received orders to report for other duties in the Pacific area. He left Oak Ridge last Friday to take over his new duties.

Since his assignment here Colonel McCormick has been the only Army officer on duty in Y-12, compared to the many on duty here during and immediately after World War II. His duties here have brought him in contact with many Y-12ers who genuinely regret the orders taking the affable officer away.

Colonel McCormick said last Friday that he deeply enjoyed his work here, having formed many friendships with Y-12ers as a result of his contacts.

Colonel McCormick has been in the regular army since 1940, being called to active service in that year from the reserve. During the war he saw service in the European and African theaters as well as in the Pacific, including assignments in New Guinea and the Philippines.

Uranium Declared 'Superconductor'

The magazine Nature has reported that two British scientists, Drs. B. B. Doodman and H. Shenberg, that uranium has been discovered to be a superconductor near absolute zero. The scientists also found that the conductivity of uranium varies with the amount of impurity present.

STACK SAFEST PLACE

The Washington Star quotes Col. Elbert De Coursey, Atomic Energy Commission consultant, as saying the inside of a smokestack might be the safest place to hide in case of an atomic attack. He said few smokestacks were knocked down in Hiroshima and Nagasaki explosions.

SAFETY SCOREBOARD

Your Plant Has
Operated
10 DAYS

Without A Lost Time
Accident

THROUGH JULY 23

New Lab Building Bids Are Asked

Bids will be opened August 8 by the Atomic Energy Commission for construction of a new experimental research building at the Oak Ridge National Laboratory. The construction will include water and electric supply lines.

Y-12 SPORTS NEWS



6-1627
Y-12 Photos By Vince Moore
BATTLING TO RETAIN THE OAK RIDGE CHAMPIONSHIP won last year in the Y-12 women's tennis team, pictured above. In front is Desma Hutcheson. Across the second row seated from left are Helen Burkhalter, Mae Hale and Virginia Spivey. Standing behind them are Mozelle Rankin and Phyllis Finneran. Jean Rogers, Capt. Lovelle Thompson and Mary Free-stone are at top and the inset picture is Elizabeth Patrick, who was not present when the photograph was taken.

Y-12 Women Netters Have Three Tilts Set This Week

Rained out last week, the Y-12 women's tennis team has a pair of contests set for this week and one more next week to wind up the second half of the season. The Y-12 lassies are champions of the first half of the season and likewise captured the city title last year to be defending champions.

The final scheduled match of the season for the Y-12ers is set for 5:30 o'clock Tuesday afternoon, August 8, against the K-25 team. The defending champions also were slated for matches on Monday of this week against K-25 and on Tuesday with Oak Ridge National Laboratory. The ORNL team handed Capt. Lovelle Thompson's outfit a 4 to 2 defeat in their last meeting and the Y-12ers will be out for revenge.

Y-12 Summer Bowlers Defeat Plumbers By One Pin Margin

The sizzling Y-12 keggers in the Oak Ridge Summer League eked out a one-pin margin in a torrid alley scrap last Thursday night over the Oak Ridge Heating and Plumbing bowlers and emerged with a three-point victory. The Y-12ers took two of the three games and the total score point. Y-12 now is three games in front in the loop.

Y-12 copped the first game by 823 to 809 and the second by 805 to 803. The Plumbers rallied to take the third tilt by 813 to 798 but couldn't overtake the victors.

Frank Gragg paced the Y-12 team with 533, followed by Duckworth with 498, Riddle 495, Knox 480, and Burns 421.

Plant Loopers Hope To Resume Activity After Long Idleness

Plant League softballers are seriously considering growing webbed feet or buying waterwings in an effort to get the second half of the season underway. For more than two weeks now the plant leaguers have been unable to get in a single game because of the excess precipitation of moisture.

However, they are going to make an effort to get underway this week under the original schedule. If more postponements occur the schedule may be revised to start all over again.

The schedule calls for Bldg. 9212 and the Isotopes to meet at 6:30 p.m. Thursday night, July 27, with the Rippers and Bums playing at 8 p.m. On next Tuesday night at 6:30 p.m. the Bums and Isotopes are slated to play with the 8 p.m. game being between the Rippers and All Stars.

Bill Reynolds Will Meet Allen For City Golf Title

Two Y-12 golfers have advanced to the finals in the Oak Ridge city tournament. Bill Reynolds will meet Woody Allen for the title in the championship flight Saturday afternoon while Floyd Ludwig and John O'Connor will compete for second flight honors.

Reynolds defeated Owen and Brock to advance to the finals while Allen won over Sacks and Vaughn.

The Scotsman has just had a very embarrassing experience. He would have sworn the sign on that door said "Laddies."

'Braille System' Umpiring Charged Cardinals Take Third Place In Lake City Tourney Despite Loss To Oneida In Only Game Played; Dodson's Arm Broken

Around the baseball circles in which the Y-12 Cardinals have been associated for the past several years the wearers of the red and white have been known as fine sportsmen and gentlemen on and off the field. Naturally, at times some of the athletes have engaged in warm words with the opposition and umpires—but after a game was over, it was over, that was that. Win, lose or draw, there were no alibis or squawking.

So it must have been really something that incited the usually easy-going Bill Burns, manager of the Cardinals, to "blow his top" during and after the first—and only—appearance of the team in the district tournament in Lake City last Wednesday night.

The Cards were beaten, 8 to 6, by Oneida. Even after a night in which to "cool off," Burns still was sizzling Thursday morning in describing the inept officiating.



Bill Burns

"That was Braille system umpiring if I ever saw it," Big Bill growled, explaining that most of the fault rested in the plate judgments of the official with his eyesight definitely on the questionable side.

In one incident, Bill Dodson, a right-hand hitter was facing the slants of the right-hand Oneida pitcher. On one pitch Dodson drew back but the ball thudded against flesh. The umpire said the ball hit the bat first—but a quick examination showed a livid bruise on Dodson's wrist with even the stitches of the ball showing on the skin. A later X-ray in Oak Ridge showed the arm fractured. Y-12ers declared that Dodson would have had to perform some real acrobatics to have had the ball hit the bat before it hit his wrist.

On another occasion an Oneida batter pounded a long ball to left field. Practically all spectators and players believed the ball hit at least six feet foul—but the umpire declared it a fair ball and the peillet rolled for a home run.

Despite the defeat the Cardinals finished in third place in the tournament. Sunbright, previous-



Bill Dodson

ly beaten by Dyllis, was to have met the Cards Thursday night but the Sunbrighters informed Y-12 that morning that they did not choose to show up, appar-

ently having some of the same ideas about the officiating, and would forfeit to the Cards.

In the game against Oneida it looked as if the Y-12ers were off to the races early as they scored four times in the first inning after Oneida had tallied twice. Then, however, things began to happen and the upstaters began to catch up and forge ahead. Lefty Carter pitched well and whiffed nine while passing only two.

After winning from Y-12, Oneida went on to take the district championship by beating Lake City, 15 to 3, Friday night.

Score by innings:
Team R H E
Oneida 200 302 010—8 11 1
Y-12 400 000 200—6 5 2
Batteries: Oneida, Porter and Duncan. Y-12, Carter and Noe, Little.

Y-12 Softies Slated For Three More Tilts

Losers in their only game played last week, the Y-12 varsity softball team has a busy few days ahead—weather, of course, permitting.

Here is the schedule for the Y-12ers through next Monday night, July 31:

Thursday night, July 27, 8:30 p. m., Y-12 vs Roane-Anderson.
Friday night, July 28, 8:30 p. m., Vagabonds vs Y-12.
Monday night, July 31, 7 p. m., Oak Ridge Motors vs Y-12.

Games this week in the league wind up the second half of the season schedule. The city tournament is scheduled to start Friday night, August 4, for a four night stand, with the winning team representing Oak Ridge in the state tournament at Chattanooga late in August.

"Po" Smith, former Y-12er now twirling for K-25, mowed down Dick Dews' boys with only two hits Monday night of last week and the K-25 outfit got a 4 to 1 decision. After a tough first inning in which the victors scored four runs, Ed Sise settled down, but the damage had been done.

A journey down to Athens, Tenn., by both the men and women softballers of Y-12 scheduled for last Saturday night, was called off by the Athenians because of a mix-up in their schedule.

Score by innings:
Team R H E
Y-12 000 100 0—1 2 3
K-25 400 000 x—4 9 0
Batteries: Y-12, Sise and Hale. K-25, Smith and Burton.

Slow Pitch Softball Team Of Y-12 Wallops K-25 Nine

Manager Pete Francis' Y-12 slow pitch softball team really poured on the hits and runs against the K-25 outfit last Wednesday night to bang out a 16 to 8 victory. The victors pounded out a total of 24 hits, Marrow and Orange leading with four each while Brown, Argo and Francis each got three.

The Y-12ers now have a three won and three lost standing and are scheduled to meet the AEC team at 9 o'clock tonight on the Turnpike diamond.

Team R H E
Y-12 261 420 1—16 24 5
K-25 020 400 2—8 13 6
Batteries: Y-12, Francis and Orange. K-25, Rowley and Lcnri.



THE WINNAH—AND STILL champion, J. Clyde Bowles, above, successfully defended his Y-12 golf title in the championship flight of the Y-12 Golf League tournament when he defeated Leo Caldwell in the finals. Bowles also won the title in 1949.

Robins And Bluebirds Battle For Spot In State Tourney

The Y-12 Robins and the K-25 Bluebirds, the only two women's softball teams in Oak Ridge, are battling it out this week for the honor of representing the Atomic City in the state tournament in Chattanooga, August 18, 19, 20 and 21.

After being scheduled to play Tuesday night, the teams were

Cards, ORNL To Open Last Half Thursday

CARDS, ORNL TO OPEN
The second half of the season in the Oak Ridge City Baseball League will get underway tomorrow night, Thursday, July 27, with the Y-12 Cardinals meeting the Oak Ridge National Laboratory nine at Gamble Valley. Game time is 8 o'clock. The Cards then are slated to meet Lake City there Sunday and next Thursday night, August 3, will tackle the K-25 outfit.

Title Games Are Set
The hotly disputed first half championship will be decided at the local ball park this week. K-25 and Roane-Anderson, each with seven wins and four losses, meet at 8 o'clock tonight, Wednesday, July 26. The winner will meet ORNL at 8 o'clock Sunday night. ORNL has won eight and lost four. The Cards have a seven won and five lost mark.

The Roane-Anderson Wildcats clawed out a 13 to 5 victory over the Y-12 Cardinals last Thursday night at the Gamble Valley ball yard to definitely oust the Cards from any chance at the first half of the season honors.

Cards Not In Form
The wearers of the red and white, obviously unnerved by their experiences over in Lake City the previous night, couldn't hit, couldn't field and couldn't do anything right. The Wildcats scored in clusters of four against Addison and Johnson and Byrge kept the Cards scoreless until the final inning, when all the five runs were scored. Seven bobbles didn't help the Y-12 cause a bit.

Wiley got a home run for the Cards and Fred Guttry pounded out a double. Martin was the only Y-12er to get more than one bingle, pushing out two singles.

Team R H E
R-A 040 040 410—13 9 2
Y-12 000 000 005—5 7 7
Batteries: Y-12, Addison, Johnson and Hatcher. Little. Roane-Anderson, Byrge and Ramsey.

slated to resume hostilities at 7:30 o'clock Thursday night, July 27, at Pinewood Park. If a third game is necessary a date will be selected later.

In previous engagements this year the Robins have managed to win all but one of the clashes. However, the Bluebirds will be out for the honors and are sure to give the Y-12 lassies a tough scrap.

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Care, Courtesy Traits Of 'Better' Drivers

Courtesy and common sense are the outstanding qualities of the capable and safe automobile driver. Observance of these principles at all times contribute greatly to the safety of not only themselves, but members of their families, passengers and other drivers.

Courteous and sensible drivers take their turn in traffic and do not charge out of established traffic lanes and crowd other drivers. Such "road hogs" are highway menaces and safety hazards of the highest type.

"Straddling" Driver Is Nuisance

Careful drivers stay in their own lanes of traffic except when passing other traffic under conditions that are safe for all concerned. The courteous driver also never straddles two traffic lanes to look around cars in front and thereby hampering smooth flow of traffic in both lanes. This type of driver also is a nuisance on the highway.

Careful drivers pass other vehicles only when they can see ahead a sufficient distance to be sure that no others are approaching that will create a collision hazard. Passing other vehicles on curves, hills or when lines of automobiles ahead is long is one of the most hazardous acts of driving.

Passing Should Be Allowed

In the same category, courteous drivers will permit vehicles behind to pass on giving horn or light signals and control speed so as not to create a hazard for the passing vehicle. Slowing up or increasing speed in such cases has been the cause of many accidents to passing vehicles.

The "right of way" rule is observed by all drivers who are careful and courteous, as much as for their own safety as for that of others. Careful drivers even do not insist on the right of way, particularly if some other driver has had the same idea, and keep their cars under control for sudden stops if necessary.

"Cheating" Lights Avoided

"Cheating" on traffic lights is another trait avoided by the courteous driver who observes the rights of pedestrians and other vehicles. Advancing on amber lights creates hazards for pedestrians and other traffic alike, as does turning right on green or red lights without seeing that the way is clear. Extending courtesy to drivers trying to turn left on green lights across traffic also is commendable and helps keep traffic moving smoothly without congestion.

Being honest in parking is another trait of the careful and courteous driver. Care should be taken not to block driveways and space should be allowed between vehicles both in front and back to allow opening of doors and departure from the parking space without crowding.

Such care and good manners on the part of motorists will do much toward reducing the destruction of life and property on highways of the nation.

The people who find prosperity just around the corner—usually know which corner to turn.



SCOTT - VERRAN

Mr. and Mrs. Ben I. Scott have announced the engagement of their daughter, Miss Julia Margaret Scott, to Harry Elliott Verran, son of Mr. and Mrs. Harry Evans Verran, of Middlesboro, Ky. The father of the bride-elect is an electrical dispatcher of the Y-12 Electrical Maintenance Department.

The wedding will be solemnized at 4 o'clock Saturday afternoon, August 19, at the Chapel-On-The-Hill with the Rev. Mr. Doaks, of Middlesboro, officiating. A reception will follow at the Ridge Recreation Hall.

Miss Scott was honoree at a shower given last Friday afternoon by Miss Mary Elliott and Miss Betsy Redden at the home of the former, 112 Georgia Ave.

Best Treatment Against Poison Plants—Avoid

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white berries. Another common sumac with red berries and leaves that often turn red early in summer is harmless.

It is the oily sap of these plants that cause irritation and skin rash. There are a multitude of so-called home remedies for the rash but the best advice is to call in a physician and by so doing many uncomfortable hours and days may be avoided. However, when contact with any of the three poisonous shrubs is known or suspected the best immediate treatment is to wash the exposed portions of the body with soap and water. A good naphtha soap is recommended by physicians for this purpose. After washing be sure to rinse thoroughly to remove all soap, dirt and the oily sap. A good reliever of pain before the doctor arrives could be a dressing soaked in cold sodium bicarbonate or an Epsom salts solution.

The fact remains that the one effective way to combat such poisoning is to be able to recognize the plants and stay away from them entirely.

How To Eradicate Plants

If poison ivy is to be eradicated in fields or yards the person undertaking the job should wear long leather gloves, leggings and a heavy work shirt or tie trouser cuffs closely around shoes and tie shirt sleeves over the cuffs of short

Connecticut Yankee My Favorite Story On Sunday Night



Claude Sweeten, Ronald Coleman One of Mark Twain's greatest stories, "The Connecticut Yankee," will be dramatized Sunday night from 7 p. m. to 7:30 p. m. in the My Favorite Story program over Oak Ridge Radio Station WATO. The program is sponsored weekly by Carbide.

Archie Gardner, of Duffy's Tavern fame, selected "The Connecticut Yankee" as his favorite bit of literature for presentation on My Favorite Story. Ronald Coleman will be host and commentator on the program and the orchestration will be in charge of Claude Sweeten. A cast of movie and radio actors will present the program.



The following Y-12 employees were patients in the Oak Ridge Hospital last week: Geneva W. Sanders, Plants Records; Charles C. Ruckart, Chemical; and Melbourne L. Winton, Electromagnetic Research Laboratory.

A man's possessions in themselves are not a true measure of his worth. His service to his community and his fellowman must be added—or subtracted.

gloves. The most effective way of eradicating the plant is to pull or grub it out by hand, getting all the vine-like roots. If poison ivy is growing like a vine on a tree the stem should be chopped through at the base and new shoots grubbed out as they appear. When burning dried poison ivy plants take care to avoid the poisonous smoke.



Seashore sights and sea shells still stir the feet of Y-12 vacationers toward Daytona Beach, Fla. . . . Cashier T. A. Williams right now is down there basking in the sun while other Manufacturing Offices folks are envious. If it is remembered rightly on one of Williams' trips to Florida he got caught plumb in the middle of one of the big breezes (hurricanes to outsiders.)

Other Y-12ers down Daytona way include Ruth Law, of the Plant Records Office . . . Dorothy Connor and her husband, Leroy, are vacationing, motoring all over Florida. They also planned to go over to Cuba for a few days.

Dora Johnson, of the Laundry, is vacationing for a couple of weeks at her home in LaFollette.

Another one of those round-the-horn trips in Florida is being taken by Ray Duckworth, of Isotope Research and Protection, his wife, and J. C. Holliday, of K-25, and Mrs. Holliday, a former Y-12er. They traveled down the West Coast and returned via the East Coast with appropriate stops.

W. B. Adcock, of Electrical Maintenance, another Florida fan, is just back from the Sunshine (?) State and reports running into two weeks of rain . . . John L. Kennedy and J. R. Carriger have returned from vacations . . . W. G. Biggers, A. L. Franklin and H. P. McGaughey are vacationing from July 17 to July 31 . . . The department sends get well wishes to T. B. Hendrix.

L. M. Thompson, of Standby Maintenance, also is vacationing—destination unlisted.

Vacation news also seems to be the principal items of interest in Field Maintenance. W. W. Watson, J. F. Baker, T. S. Moody, H. F. Jenkins and B. A. Hicks are all away to various and sundry points taking a good rest.

E. F. Sosby, of Maintenance Utilities, is—yeah, on vacation.

Y-12 Paymaster Woody Palmer peppered his friends back home with pounds of picture postcards of an alleged humorous variety. The one received by The Bulletin was purported to be of a newsy variety—not "man bites dog" but a combination of events concerning a dog and a fire plug that is news right on, when and if it happens. Woody and Mrs. Palmer were out in Texarkana on a week's vacation—so perhaps anything can happen there.

Tired of frying, baking and otherwise cooking goodies down at the Cafeteria, Ed Frye is vacation-

ing for a couple of weeks up in Gatlinburg.

W. C. Moyers, of Planning and Estimating, is back after a week's vacation spent in Knoxville.

Ruby McCloud, of Chemical, also has returned to work after a vacation of one week.

A quiet two weeks at home in Byington was spent by Paul Fawver, of Stores, while vacationing.

C. L. Stuckey, of the Tool Department, is vacationing this week at home in Knoxville.

Hazel Tompkins is welcomed to work by the Property Sales Department.

Field Maintenance is offering sincere congratulations to Ellis W. Mynatt, who was married to Ruth Johnson July 15. Both are from Knoxville and the ceremony was performed at the new home he built for his bride there. Guests at the wedding from the department included A. B. Cassidy and Mrs. Cassidy, M. P. Crews and Mrs. Crews and E. W. Koons and Mrs. Koons. Mynatt is vacationing this week getting settled in his new home.

L. H. Perry, of the Fire Department, is vacationing for a week at his Knoxville home . . . Jerry Hasting and family spent a recent week end with his folks at Fayetteville, Tenn.

D. C. Shultz is back at work in the Guard Department after a week's vacation.

The Property Department reports J. M. McMaster and family are spending a week's vacation at Jackson, Tenn. . . . The department is congratulating Noah Ensor on the birth of a daughter at the Oak Ridge Hospital at 6 o'clock Monday morning, July 17.

Daytona Beach also is popular with Health Physics and Hygiene folks . . . Elaine Watson and her husband, Clyde Watson, of the Oak Ridge National Laboratory, are down there now . . . Joe Hackney and family have just returned from a week at the Florida resort. . . . Dean Reed and family are vacationing for a couple of weeks at Ridge Crest, N. C.

Harold Babb is back at Maintenance Shops after a week's vacation up around Hamilton, Ohio. While there he went fishing in one of those pay-as-you-go fish ponds and aroused a lot of "ohs" and "ahs" when he pulled out a bass he said weighed not more than two pounds. "Shucks," he told the envious Buckeyes, "we use these for bait down home." (Getting more like Means every day.) With that yarn—s'long for the present.



Three Y-12 employees became fathers of babies born recently at the Oak Ridge Hospital. They were Archie W. Rikola, boy; Noah L. Ensor, girl; and Clarence E. Legg, girl.

Chemicals Convert Mud To Concrete

The Massachusetts Institute of Technology recently has tested an "entirely new approach" to the problem of road building and proved that within 24 hours by use of certain chemicals a sloppy mud patch can be converted into a road stronger than concrete. This new process can be applied to soils containing up to 30 per cent water by weight, enough to turn clay as soft as bread dough. Military uses of the process include construction of airfields and surfacing of landing beaches.



6-15-65
IT WOULD TAKE MORE THAN A TUG OF WAR ON THE PART OF WELL-MEANING relatives to drag the family of Lyle G. Lankford, of the Y-12 Maintenance Shops, to Texas, as shown in the picture above. The Lankfords, twin sons, Duane and Wayne, Mrs. Lankford and Lyle, are at the right. Then, from left are Mr. and Mrs. Elzy Givens, Cleburn, Tex., and Mr. and Mrs. Jean Williams, of Jackson, Tenn., Mrs. Givens is a sister of Mrs. Lankford and Mrs. Williams a sister of Mrs. W. J. Joplin, center, of Cleburn, who is Mrs. Lankford's mother.

Y-12 Photos By Vince Moore

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Y-12 Photos By Vince Moore
PAUL ZIEMKE, OF THE Y-12 SAFETY DEPARTMENT, views instruments used to make use of explosives safer. In his hand he holds a graph from an Accelograph, first instrument at his right. The top line of the graph registers the longitudinal shock of an explosion, the second line the vertical displacement and the third the transverse or shear wave. The other instruments to the right of the Accelograph are a commercial type of galvanometer that checks electrical circuits used in blasting, an Army type of galvanometer that is more sensitive while at the right is a statometer that registers static electricity in the air prior to setting off an explosion by electrical detonators.

Y-12 Man Will Speak On Use Of Explosives On Headlines In Chemistry Program Sunday

Paul C. Ziemke, of the Y-12 Safety Department, will talk on the topic of explosives on the Headlines in Chemistry radio program to be presented at 9:15 o'clock Sunday night, July 30, over Oak Ridge Radio Station WATO. The program is sponsored weekly by the East Tennessee Section of the American Chemical Society.

Co-hosts on the program will be J. Neeley, of Fairchild Engine and Airplane Co., and J. Barton, of K-25.

In his talk, Ziemke plans to describe the important role played by explosives in the everyday life such as in the mining of metals, quarrying stone, developing farm lands and improving means of travel by blasting road beds for highways and railroads. Explosives also have a part in the public health of the world, Ziemke will point out, in the blasting of drainage ditches to dry up malaria-carrying, mosquito-breeding places. In fact, it is declared in Ziemke's text, the eradication of the mosquito during construction of the Panama Canal was almost as important as the rock blasting operations for the canal.

Sobero Discovered Nitroglycerine

Listeners to the program will be informed that Sobero, a chemist, discovered nitroglycerine in the middle of the 19th Century, but it was so sensitive that attempts to use it were abandoned until Alfred Nobel, founder of the Nobel Peace Award, discovered that nitroglycerine absorbed in an inert material such as limestone, was safe and would not explode until detonated from some outside source. With this discovery, dynamite was discovered and nitroglycerine controlled.

Although not included in the text of his talk on the Headlines in Chemistry program, Ziemke points out some of the precautions taken by engineers using high ex-

plosives for the protection of buildings and persons nearby the site of the blast. Investigations have revealed that the energy ratio can be used as a measure of damaging force that may be imposed on structures because of blasting vibrations. The energy ratio is proportioned to the square of the weight of the explosive detonated at a given instant. It decreases as the distance from the center of the explosion increases.

Tests Determine Amounts

By preliminary vibration tests of the ground strata on the site of a proposed blast, Ziemke declares, it is possible to determine the amount of explosives that can be safely used and yet produce the desired results. Engineers using explosives utilize several instruments in making preliminary tests, including an Accelograph. This device registers longitudinal, vertical and transversal waves of explosives. Galvanometers tell the condition of electric lines used to cause detonations and static electricity that might affect the blasting operations also can be determined by another instrument.

ANOTHER USE FOUND

The United Press has reported that a University of Michigan expedition is using a Geiger Counter this summer in an effort to learn when man first came to North America. Ancient village sites and burial caves off Alaska are being tested with the counter.

Security Rules Aimed At Protecting Nation

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enemies of the United States if they had the knowledge and "know how" of this country.

At this time the Atomic Energy Commission has made no effort to control the writings or addresses of persons who have had no access to classified information, known as restricted data. The AEC takes the stand that comment on such outlets might reveal that any guesses made by such authors or speakers might be correct and cause a breach of security. If such writings or speeches do not reveal any restricted information—then no harm is done.

Channels Are Provided

All Y-12ers are advised that anyone who have had or now have access to classified information, that however well acquainted they are with various classified programs they may not always be in a position to determine the significance of such information in connection with other AEC programs with which they may not be familiar. For this reason channels have been established for the protection of the country and to guard the individual author or speaker against any possible violation of the AEC security rules and the Atomic Energy Act.

It is urged that everyone follow such channels as provided in the Standard Practice Procedure No. 55-B. When needed, additional information may be obtained from the Y-12 Security Office, North Portal, telephone 7125.

Sardines (Poor Suckers) Sucked By Ton To Doom

A Californian has patented a method to catch fish by the ton—but it is not recommended for Y-12 fishermen who like to be sporting with their bass, crappie, wall-eye and other eatin' fish.

According to the National Patent Council, H. J. Kimmerle, of Los Angeles, has devised a pump combination that sucks sardines up out of the ocean at a rate of 50 to 200 tons per hour. An eight-inch hose with a 10-inch funnel is dropped into a school of succulent sardines. Up they come, like toothpaste out of a tube. They are dumped onto a conveyor belt and deposited into the hold of the fishing ship.

The NPC failed to mention if the process is continued to get the sardines into the cans—but perhaps that is a patent of another color.

Women And Men Softballers Of Y-12 Lose In Knoxville

The Powell Rebels pounced on Pat Roberts' pitching for five runs in the first inning and went on to defeat the Y-12 Robins by a 6 to 2 score last Saturday night in Knoxville. The Y-12 lassies could get but four hits, Helen Aikman obtaining two of them.

The Y-12 men's varsity softball team took a 16 to 0 defeat from the Knoxville All Stars later the same night.

Delicate Uranium Detector Described

The Ottawa Journal has reported that three Canadian scientists have described a uranium ore detector that might serve as a "magic eye" in atomic defense. The detector was described in the British scientific publication, Nature. Chapman Pincher, London Daily Express science writer, says the device may be sensitive enough to detect weak rays which would be given off by an atomic bomb hidden in the hold of a ship.



Carbide Chemist Wins Prized Hyatt Award

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ner.

Powell was born in Montgomery, Ala. After graduating from high school in Leonia, N. J., he entered Columbia University in 1927, receiving the degree of bachelor of arts in 1931. He then transferred to the School of Chemical Engineering, receiving the degree of bachelor of science in chemical engineering in 1932 and the chemical engineering degree in 1933. In that year he joined the Chemicals Division of Union Carbide and immediately engaged in research on surface coatings. He was made technical head of the Coatings Division of the Research and Development Department at the South Charleston plant in 1944.

Celluloid Inventor Honored

Powell is the ninth John Wesley Hyatt Award winner, which is sponsored by the Hercules Powder Co. The award has been presented annually since 1941 to the person judged by the award committee to have made an outstanding contribution to the plastics industry during the preceding year. The award was conceived to perpetuate the memory of John Wesley Hyatt, whose invention of celluloid in 1867 launched the gigantic plastics industry.

'Absolute Filter' Declared Devised For Atomic Plants

The National Patent Council reports that an "absolute" filter recently has been developed for use in atomic energy plants. Its efficiency is said to have been tested on a ratio of 20,000 dust particles to the cubic inch. Only one of the 20,000 particles escaped through the filter. Conventional filters allow 1,000 to 3,000 particles to escape, it is claimed.

The device has been perfected to what is called the "absolute" degree to protect atomic energy workers from contamination by breathing radioactive dust particles. The inventors, Arthur D. Little, Inc., says the device will augment rather than supplant other filters.

The NPC also says the new filter will be advantageous in laboratories where precision instruments are perfected. It also is anticipated that home units may become available to filter out pollen and bring relief to persons suffering from certain allergies.

New Midget Fan Selling For \$2

The National Patent Council reports a new midget fan on the market that fits into the palm of the hand and weighs only three ounces. The little gadget provides breeze to combat summer heat for a price of only \$2. It is powered by two tiny batteries.

Think Safety . . . Work Safely . . . Play Safe.

Stores Takes Top In Attendance List

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groups with 15-49 employees scheduled, that posted "all present" marks for the week ending July 16 have been on top for a long time. The Laundry has attained perfect attendance figures for 12 straight weeks, closely followed by Planning and Estimating, Steam Plant and Receiving and Shipping at 11 weeks each. Property continued its perfect record into the 10th week.

The other repeating department in the Minor League for the week ending July 16 was Superintendents. The newcomers to the list of 10 were Research Engineering, which did not post a record the preceding week, Employee Relations, Analytical Chemical Division and Uranium Control and Computing. The last three named departments were in fourth, fifth, and sixth places the preceding week.

Transportation Is Second

Transportation, one of the first place departments for the week ending July 9, dropped to second place the following week with an absentee record of .7 per cent. Maintenance Utilities maintained its third place position for the second week in a row, having an absentee mark of .8 per cent.

The plant-wide absentee record for the week ending July 16 was 1.4 per cent. This was .1 per cent more than the previous week and .2 per cent above the all-time low mark of 1.2 per cent established for the week ending June 18.

The record, by departments, follows:

| Dept. | MAJOR LEAGUE | | |
|-------|----------------------------------|-------------------|------------------|
| | More Than 50 Employees Scheduled | Percentage Absent | 7-16-50 Standing |
| 2142 | 0.0 | 1 | 11 |
| 2014 | 0.2 | 2 | 9 |
| 2619 | 0.3 | 3 | 3 |
| 2015 | 0.8 | 4 | 7 |
| 2616 | 1.0 | 5 | 6 |
| 2300 | 1.2 | 6 | 2 |
| 2320 | 1.4 | 7 | 8 |
| 2282 | 1.5 | 8 | 4 |
| 2283 | 1.7 | 9 | 10 |
| 2077 | 1.8 | 10 | 5 |
| 2091 | 2.0 | 11 | 1 |
| 2360 | 2.7 | 12 | 12 |
| 2003 | 4.8 | 13 | 13 |

| Dept. | MINOR LEAGUE | | |
|-------|-------------------|------------------|--------|
| | Percentage Absent | 7-16-50 Standing | 7-9-50 |
| 2064 | 0.0 | 1 | --- |
| 2096 | 0.0 | 1 | 1 |
| 2002 | 0.0 | 1 | 1 |
| 2140 | 0.0 | 1 | 1 |
| 2200 | 0.0 | 1 | 1 |
| 2743 | 0.0 | 1 | 1 |
| 2143 | 0.0 | 1 | 1 |
| 2109 | 0.0 | 1 | 4 |
| 2270 | 0.0 | 1 | 5 |
| 2739 | 0.0 | 1 | 6 |
| 2008 | 0.7 | 2 | 1 |
| 2005 | 0.80 | 3 | 3 |
| 2107 | 0.84 | 4 | 1 |
| 2060 | 1.1 | 5 | 1 |
| 2001 | 1.7 | 6 | 2 |
| 2133 | 6.5 | 7 | 7 |

Group absentee percentage was .8 per cent, .4 per cent lower than the preceding week.

The plant average for the week ending July 16, was 1.4 per cent, .1 per cent higher than the preceding week.

Chicago Inventor's Torch 'May Set The World On Fire'

Louis A. Falligant, 31, Chicago inventor, may be well on his way to "set the world on fire," whether he wants to or not. In this case he probably does—with his patented blow torch. He began production of his new idea for a blow torch in December, 1949, according to the National Patent Council, and by March 15, 1950, he was turning them out at a rate of 1,500 per day. By the end of this year he plans to have finished more than 1,000,000 of the torches.

The idea for the small and convenient blow torch patented by Falligant came to him while he was a welding officer in the Navy at Puget Sound, Wash. He knew he could devise such a blow torch that didn't have to be primed, use a throw-away fuel container and which would become a handy tool for any household. So he made one that worked and soon obtained financial backing for the production.